APPLICATION PALEOGEOGRAPHIC DATABASE OF «Q–KOLA» IN THE STUDY OF THE PLEISTOCENE–HOLOCENE BOUNDARY

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The Kola Peninsula is situated entirely on the area of the Fennoscandian Shield on the NW Russia. In a small area there are immediately natural zones: tundra, forest tundra and taiga, what is due of features of geology and development of the area in particular the close location from the center of glaciation, the influence of the Barents and White Seas. The study of the Pleistocene - Holocene events on the peninsula is still in progress.

Lakes of the Kola Peninsula were formed from periglacial lakes or lakes from the sea, which were reflected directly in the bottom sediments as information storage.

A database „Q-Kola“ (Fig.1) [Grekov & Subetto, 2014a,b; Grekov et al., 2014, Grekov & Subetto, 2015] was created to systematize and structure various information on the paleogeography of the region. In modern geoinformation systems, it becomes possible to interactively work with information sources and process the data itself. Particular attention is paid to the lake sediments in the database, but there is also information on peat sediments, paleosoils and outcrops along river valleys. The database „Q-Kola“ contains information on the location of the studied objects, the results of analyzes and references to original publications.

Structuring and cartographic representation of information about region allows for spatial analysis of the territory for different time sections and under specified conditions [Syrykh et al., 2017; Myasnikova et al., 2017; Grekov et al., 2018].

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